Quartz Crystal Resonator (32.768KHz)

TF4115

General Description

The TF4115 is a low frequency SMT Quartz Crystal Unit that incorporates a tuning fork Quartz Crystal Resonator. It operates under vacuum in a hermetically sealed ceramic package with ceramic lid.

Features

High stability and low aging guaranteed by hermetic sealing. Available for extended operating temperature range. Small size, low profile, lightweight. High shock and vibration resistant. 100% Pb-free, RoHS-compliant

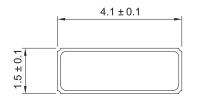
Main Applications

Mobile phone, Notebook, Metering

Electrical characteristics

Item	Symbol	Values		
Part number		TF4115		
Nominal frequency	F	32.768 KHz		
Frequency tolerance (@ +25°C)	Δf/F	± 20 ppm		
Frequency stability	Δf/F	-0.034 ppm∕°C ²		
Operating temp. range	To	-40°C/+85°C		
Storage temp. range	Ts	-55°C/+125°C		
Load capacitance	Cl	7.0 / 9.0 / 12.5		
Equivalent serie resistance	ESR	70 KΩ max		
Shunt capacitance	CO	1.1pF (typical)		
Motional capacitance	C1	0.002pF (typical)		
Drive level	Р	0.5μW max		
Turnover temperature	Tt	+25°C ±5°C		
Quality factor	Q	30000 min.		
Aging	Δf/F	±3ppm max @ +25°C		

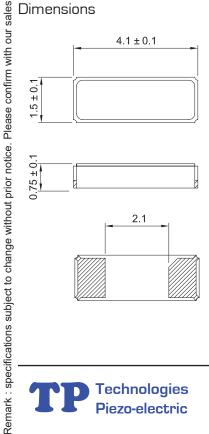
Dimensions

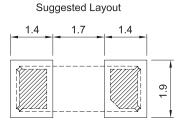






Connection





Units:mm



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Quartz Crystal Technology

Part Number Generator

TF4115

TF4115 -	0.032768	P12.5	С	N	TR	XXX
	1	2	3	4	5	6

1: Frequency (MHz)

max 10 digits including comma

2: Load capacitance

P7 = 7pF

P9 = 9pF P12.5 = 12.5pF

3: Tolerance

C= ≤±20ppm

4 : Op. Temp. range

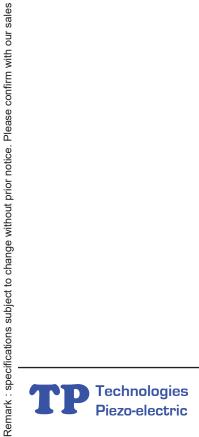
N=-40/+85

5 : Packing

TR = Tape & Reel (3K pcs)

6: Customized code

Note: factory use



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